

M/053/005

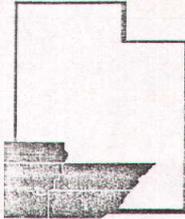
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Five County Association of Governments

906 North 1400 West
St. George, Utah 84770

FAX (801) 673-3540

DOGMA
MINERALS PROGRAM
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Post Office Box 1550
St. George, Utah 84771

(801) 673-3548

SOUTHWEST UTAH

AREAWIDE CLEARINGHOUSE A-95 REVIEW

Type of Action: Pre-Application _____ Notification of Intent X Application _____
Notice of Federal Action _____

Receipt Date 1-11-91 SAI Number UT910110-010 ACH Number _____

Applicant Identification, Address
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center - Suite 350
Salt Lake City, UT 84180-1203

Applicant's Project

Title: **REVISED NOTICE OF INTENTION TO COMMENCE
MINING OPERATIONS FOR THE TENNECO GOLDSTRIKE PROJECT**

Description: Addition of 4 new open pits and the enlargement of the padre pit, a new waste dump in Quail Canyon (effectively damming the drainage), expansion of HEAP Leach Pad #2 onto the new waste dump/fill, one new process solution pond and enlargement of one existing pond, minor alterations to the siting of existing structures and relocation of facilities within the mine area to accommodate new pit development.

Funding

N/A

Federal	\$ _____
Supplemental	_____
State	_____
Local	_____
Other	_____
TOTAL	\$ _____

Federal Funding Department and Agency

AREAWIDE CLEARINGHOUSE COMMENTS ON PROPOSAL FOR FEDERAL AID

Staff review completed (date) 1-11-91
Screening Committee review completed (date) 2-20-91
Executive Board Review Completed (date) _____
Referred to originator for additional information (date) _____

- Recommend Approval X Comments (see reverse side of page) X
- Conditionally approved as follows (see reverse side of page) _____
- Recommend Disapproval _____ Comments (see reverse side of page) _____

The project described above (X) does () does not conform with the policy or planning of the multijurisdictional area it directly impacts. Additional information () is (X) is not needed.

We also serve notice that all requirements of the Project Notification and Review System for this multijurisdictional area have been met. Therefore, attach this letter to your application and forward to the federal funding agency.

If this project will be a renewal or continuation grant, please submit your application next year to this area-wide clearinghouse for re-review 30 days prior to submission to federal funding agency.

If any Clearinghouse Comments go unresolved, Federal law requires the Applicant to attach a copy of all negative comments to the project application and forward them both to the Federal Funding Agency(ies).

We would anticipate reviewing final project application 30 days prior to submission for funding.

Authorizing Official

2-21-91

Copy of review ^{Date} sent to applicant.

February 12, 1991

TO: Wayne Hedberg, Permit Supervisor
FROM: Holland Shepherd, Reclamation Specialist *HS*
RE: DWR Comments on Tenneco Plan, Tenneco Minerals Company,
M/053/005, Washington County, Utah

I've reviewed the attached Wildlife Resources letter. The following are comments based on the review:

1. The operator has committed to cover cyanide solution ditches in the MRP, page 24.
2. The comment on topsoiling and ripping, we cannot concur with. The operator has been approved, already, for soil depths of 6 and 8 inches on portions of the site. We have asked the operator to topsoil with 12 inches over the proposed waste and leach areas. The operator will be facing a deficit regarding topsoil application, so will not be able to meet a 12 inch minimum requirement.

The operator has already committed to a 1 foot ripping scenario prior to topsoiling and 1 foot following topsoil application. We have agreed to this. I don't think ripping both topsoil and waste, together, to a depth of 2 - 4 feet is the best reclamation procedure here. It would dilute the beneficial effect of the topsoil too much, given the small amounts to be used at reclamation.

3. We could recommend that the operator incorporate some of the species DWR has listed, which are not already on the list. I have placed a circle next to those species.

I think the planting timeframe DWR advises is better than what was proposed by Tenneco. Tenneco's planting window falls sometime after October 1st. DWR advised planting between November and January.

DWR also advises keeping the area fenced while plants are being established. I saw nothing in the permit committing to do this. I think it should be incorporated into the plan. Livestock will be particularly damaging to new growth on the site.

jb
Attachment
M053005.3



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

m/053/005

Norman H. Bangarter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

Southern Region
622 North Main Street
P.O. Box 606
Cedar City, Utah 84721-0606
801-586-2455

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DIVISION OF
OIL, GAS & MINING

January 30, 1991

D. Wayne Hedburg
Mined Land Reclamation Program
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Mr. Hedburg:

After reviewing the revised plan of operations for the Tenneco Goldstrike Project, UDWR has the following concerns and suggestions:

operations will be covered pg 24, MMP

To aid in eliminating animal losses, cyanide solution ditches should be covered to prevent animals from drinking solution waters.

After consultation with our plant lab in Ephraim, we suggest the following procedures for reseeding during the reclamation process.

1. Topsoil needs to be at least 12 inches in depth to adequately support seeds. The area should be *ripped* 2-4 feet deep to mix topsoil and rock. This process would break up compacted soil catchment basins, increase water filtration and water holding capacity, improve rooting and create microhabitat and climates for germination, establishment and reproduction.
2. Species recommended for your specific site that have the potential to grow well from direct seeding include:

if these have proven successful in area ok

- Palmer penstemon ✓
- Intermediate wheatgrass •
- Lewis flax •
- Gooseberry leaf and/or scarlet globemallow •
- Yellow sweetclover ✓
- Bottlebrush squirreltail •
- Desert bitterbrush ✓
- Luna pubescent wheatgrass •

As many of these species as possible should be incorporated into a seed mixture at an amount no less than 15 lbs. per acre. Additional adaptive species may be used depending on availability of seed.

Mr. D. Wayne Hedburg
January 30, 1991
Page 2

3. The following shrub species can be successfully transplanted and should do well on the area.

Wyoming big sagebrush ●
White stemmed rubber rabbitbrush ●

4. All seeding should occur November-January, or prior to the summer storms in June and July.
5. The area should be fenced to keep livestock out for at least two growing seasons. Care needs to be taken to insure that the area is not damaged once the fence is removed, since the area will probably have better quality forage than adjoining areas.

Sincerely,

Bruce L. Bonebrake

Bruce L. Bonebrake
Habitat Program Manager

F. Clair Jensen
F. Clair Jensen
Regional Supervisor

BLB/FCJ/vt

cc: David F. Everett, BLM
Carolyn Wright
Catherine Quinn, SLO



Norman H. Bangertter
Governor
Suzanne Dandoy, M.D., M.P.H.
Executive Director
Kenneth L. Alkema
Director

DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

288 North 1460 West
P.O. Box 16690
Salt Lake City, Utah 84116-0690
(801) 538-6121

February 4, 1991

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FEB 07 1991

DIVISION OF
OIL, GAS & MINING

Ken A. Kluksdahl
Tenneco Minerals
P.O. Box 2650
955 South 1300 West #4
St. George, Utah 84770

RE: Goldstrike Mine
Expansion of Leach Pad No. 2 and
Associated Facilities, Notification to Apply
for Ground Water Discharge Permit

Dear Mr. Kluksdahl:

We have reviewed your letter dated December 7, 1990.

Pad No. 2 is proposed to be expanded by extending in the southerly direction into Quail Creek, a natural drainage. The first phase of construction would be an earth-fill dam upstream and adjacent to the proposed expansion. The face of the dam would be lined with 20 feet of select clayey material. When water depth exceeds 20 feet it would be pumped out. In Phase 2, the fill for the foundation of the proposed pad will be placed. This will consist of approximately two (2) million tons of mine overburden.

Our comments on the proposed expansion of Pad No. 2 are as follows:

1. We agree that a construction permit is not required for the dam. You may elect to proceed with the construction at your own risk pending resolution of issues for Pad No. 2. This position was communicated to you in a letter dated January 10, 1991.
2. We do not agree with your conclusion that a construction permit is not required for construction of the foundation for the proposed expansion of Pad No. 2. The foundation is deemed to be an integral part of the pad. The foundation design must be such that it would support the load imposed thereon, and maintain the integrity of the liner and leak detection system. A construction permit or approval from this office must be obtained prior to construction.
3. As stated in your letter, two engineering consultants have recommended that the fill for the foundation can be constructed out of mine overburden such that the settlement will be uniform and predictable. This assertion needs further verification.